

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450



Docket No.: 206.1004US
Date: June 7, 2004

In re application of: **Emil CIURCZAK, et al.**

Serial No.: **10/657,657**

Filed: **September 8, 2003**

For: **APPARATUS AND METHOD FOR NON-INVASIVE MEASUREMENT OF BLOOD CONSTITUENTS**

Sir:

Transmitted herewith is a **Information Disclosure Statement** in the above-identified application.

- Small entity status under 37 C.F.R. 1.9 and 1.27 has been previously established.
- Applicants assert small entity status under 37 C.F.R. 1.9 and 1.27.
- No fee for additional claims is required.
- A filing fee for additional claims calculated as shown below, is required:

(Col. 1)	(Col. 2)	SMALL ENTITY		OR	LARGE ENTITY	
		RATE	Fee		RATE	Fee
FOR:	REMAINING AFTER	HIGHEST PREVIOUSLY	PRESENT			
	AMENDMENT	PAID FOR	EXTRA			
TOTAL CLAIMS	* Minus** =	0	x \$ 9 \$		x \$ 18 \$	
INDEP. CLAIMS	* Minus*** =	0	x \$ 40 \$		x \$ 80 \$	
[] FIRST PRESENTATION OF MULTIPLE DEP. CLAIM		+ \$135 \$			+ \$270 \$	
			TOTAL: \$	OR		TOTAL: \$

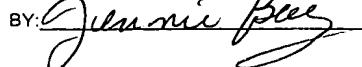
- * If the entry in Co. 1 is less than the entry in Col. 2, write "0" in Col. 3.
- ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.
- *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.

- Also transmitted herewith are:
 - Petition for extension under 37 C.F.R. 1.136
 - Other: **Form PTO 1449 and Copies of References Cited**
- Check(s) in the amount of **\$0.00** is/are attached to cover:
 - Filing fee for additional claims under 37 C.F.R. 1.16
 - Petition fee for extension under 37 C.F.R. 1.136
 - Other:
- The Assistant Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-0552.
 - Any filing fee under 37 C.F.R. 1.16 for the presentation of additional claims which are not paid by check submitted herewith.
 - Any patent application processing fees under 37 C.F.R. 1.17.
 - Any petition fees for extension under 37 C.F.R. 1.136 which are not paid by check submitted herewith, and it is hereby requested that this be a petition for an automatic extension of time under 37 CFR 1.136.

Cary S. Kappel, Reg. No. 36,561
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I hereby certify that this correspondence and/or documents referred to as attached therein and/or fee are being deposited with the United States Postal Service as "first class mail" in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" on June 7, 2004.

DAVIDSON, DAVIDSON & KAPPEL, LLC

BY: 



206.1004US

UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Application of **Emil CIURCZAK, et al.**
Serial No.: **10/657,657**
Filed: **September 8, 2003**
For: **APPARATUS AND METHOD FOR NON-INVASIVE
MEASUREMENT OF BLOOD CONSTITUENTS**
Art Unit: **3736**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

June 7, 2004

Sir:

In accordance with Applicant's duty of disclosure under 37 C.F.R. §1.56 and the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants hereby make of record the references listed on the attached Form PTO-1449. Also enclosed is a copy of the International Search Report for the corresponding PCT Application WO 2004/023974 A2.

The present Information Disclosure Statement is filed under 37 C.F.R. §1.97(b), before the mailing of a first Office Action on the merits. Accordingly, it is believed that no fee is due. However, if it is determined that any fee is due, the Examiner is authorized to charge said fee to Attorney Deposit Account No. 50-0552.

Respectfully submitted,

DAVIDSON, DAVIDSON & KAPPEL, LLC

By: _____

Cary S. Kappel
Reg. No. 36,561

DAVIDSON, DAVIDSON, & KAPPEL, LLC
485 Seventh Avenue, 14th Floor
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(212) 736-1940

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO.: 206.1004US		SERIAL NO.: 10/657,657			
		LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)							APPLICANT(S): Emil CIURCZAK, et al					
									FILING DATE: September 8, 2003				GROUP: 3736	
JUN 09 2004 O I P E JCS EXAMINER'S INITIALS U.S. PATENT DOCUMENTS														
INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		AA	5	5	0	7	2	8						
	AB	20	02	01	23	6	7	1	09/05/02	Haaland	600	300		
	AC	5	0	7	0	8	7	4	12/10/91	Barnes, et al.	128	633		
	AD	5	3	4	8	0	0	3	09/20/94	Caro	128	633		
	AE	5	2	4	3	4	6	5	09/07/93	Fein	359	636		
	AF	6	0	4	5	5	0	2	04/04/00	Eppstein, et al.	600	306		
	AG	6	1	5	9	1	4	7	12/12/00	Lichter, et al.	600	300		
	AH	5	5	6	9	1	8	6	10/29/96	Lord, et al.	604	67		
	AI	20	02	00	95	0	7	5	07/18/02	Madarasz, et al.	600	310		
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	AJ	Harrington, P.C.; "Temperature-Constrained Backpropagation Neural Networks," Analytical Chemistry, vol. 66, No. 6, pp. 802-807(1004).												
	AK	Savitsky, A and Golay, Marcel J.E.; "Smoothing and Differentiation of Data by Simplified Least Squares Procedures," Analytical Chemistry, vol. 36, No. 8, pp. 1627-1640 (1964).												
	AL	Osborne, B.G., Fearn, T. And Hindle, P.H.; "Practical NIR Spectroscopy, With Applications in Food and Beverage Analysis," 2.sup.nd Ed, Longman Scientific and Technical, pp. 114-116(1993)												
	AM	Draper, N. And Smith, H.; "Chapter 14 Dummy Variables," Applied Regression Analysis, 3.sup.rd Ed, pp. 299-324(1998).												
	AN	Mark, H.; "Use of Mahalanobis Distances to Evaluate Sample Preparation Methods for Near-Infrared Reflectance Analysis," Analytical Chemistry, vol. 59, No. 5, pp. 790-795 (Mar. 1, 1987).												
	AO	Mark, H.; "Normalized Distances for Qualitative Near-Infrared Reflectance Analysis," Analytical Chemistry, vol. 58, No. 2 pp. 379-384 (1986).												
EXAMINER								DATE CONSIDERED						
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*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AP	20	04	00	12	7	8	1	01/22/04	Gehrlein, et al.	356	328		
	AQ	5	0	6	8	5	3	6	11/26/91	Rosenthal	250	341		
	AR		6	7	5	0	3	0	05/28/01	C.S. Watins				
	AS	4	7	6	6	5	5	1	08/88	Begley				
	AT	4	9	0	1	7	2	8	02/90	Hutchison				
	AU	4	9	7	5	5	8	1	12/90	Robinson, et al.				
	AV	5	0	0	9	2	3	0	04/91	Hutchison				
	AW	5	0	2	8	7	8	7	07/91	Rosenthal, et al.				
	AX	5	0	6	8	5	3	6	11/91	Rosenthal				
	AY	5	0	7	0	8	7	4	12/91	Barnes, et al.				
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												YES	NO	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	AZ	Mark, H. And Tunnell, D.; "Qualitative Near-Infrared Reflectance Analysis Using Mahalanobis Distances," Analytical Chemistry, vol. 57, No. 7, pp. 1446-1456 (June. 1985).												
	BA	Honigs, D.E., Hieftje, G.M., Mark, H.L., Hirschfeld, T.B.; "Unique-Sample Selection via Near-Infrared Spectral Subtraction," Analytical Chemistry, vol. 57, No. 12, pp. 2299-2303 (Oct. 1985)												
	BB	Conway, J.M., Norris, K.H., Bodwell, C.E.; "A new approach for the estimation of body composition: infrared interactance," the American Journal of Clinical Nutrition Vol 40, pp. 1123-1130 (1984).												
	BC	Peuchant, E., Salles, C., Jensen, R.; "Determination of Serum Cholesterol by Near-Infrared Reflectance Spectrometry," Analytical Chemistry, vol. 59, No. 14, pp. 1816-1819 (Jul. 15, 1987).												
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	BD	5	0	7	7	4	7	6	12/91	Rosenthal				
	BE	5	0	8	6	2	2	9	02/92	Rosenthal, et al.				
	BF	5	1	1	9	8	1	9	06/92	Thomas				
	BG	5	1	2	1	3	3	8	06/92	Lodder				
	BH	5	1	3	7	0	2	3	08/92	Mendelson, et al.				
	BI	5	1	3	9	0	2	3	08/92	Stanley, et al.				
	BJ	5	1	4	0	9	8	5	08/92	Schroeder, et al.				
	BK	5	2	0	4	5	3	2	04/93	Rosenthal				
	BL	5	2	0	6	7	0	1	04/93	Taylor, et al.				
	BM	5	2	2	3	7	1	4	06/93	Maggard				
	BN	5	2	2	3	7	1	5	06/93	Taylor				
	BO	5	2	4	2	6	0	2	09/93	Richardson, et al.				
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												YES	NO	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	BP	Small, G.W., Arnold, M.A., Marquardt, L.A.: "Strategies for Coupling Digital Filtering with Partial Least-Squares Regression: Application to the Determination of Glucose in Plasma by Fourier Transform Near-Infrared Spectroscopy," Analytical Chemistry, vol. 65, pp. 3279-3289 (1993).												
	BQ	Kruggel W.G., et al., "Near-Infrared Reflectance Determination to Fat, Protein, and Moisture in Fresh Meat," J. Assoc. Off. Anal. Chem., vol. 64, No. 3, pp. 692-696 (1981).												
	BR	Arnold, M.A. "Motivation for Developing Optical Sensors for Blood Electrolyte Measurement"; Clinical Chemistry, vol. 37, No. 8, pp. 1319-1320 (1991).												
	BS	Shengtian Pan, et al., "Near-Infrared Spectroscopic Measurement of Physiological Glucose Levels in Variable Matrices of Protein and Triglycerides", Anal. Chem., vol. 68, No. 7, pp. 1124-1135 (Apr. 1, 1996).												
	BT	Marquardt, Lois A., et al., "Near-Infrared Spectroscopic Measurement of Glucose in a Protein Matrix", Analytical Chemistry, vol. 65, No. 22, pp. 3271-3278 (Nov. 15, 1993).												
EXAMINER										DATE CONSIDERED				

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FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

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206.1004US

SERIAL NO.: 10/657,657

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GROUP:
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*EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BU	5	2	4	3	5	4	6	09/93	Maggard		
	BV	5	2	5	2	8	2	9	10/93	Nygaard, et al.		
	BW	5	2	5	8	8	2	5	11/93	Reed, et al.		
	BX	5	2	6	7	1	5	1	11/93	Ham, et al.		
	BY	5	2	6	7	1	5	2	11/93	Yang, et al.		
	BZ	5	2	9	9	1	3	8	03/94	Fiori, et al.		
	CA	5	3	0	7	2	6	3	04/94	Brown		
	CB	5	3	1	3	9	4	1	05/94	Braig, et al.		
	CC	5	3	4	3	0	4	4	08/94	Sjaunja, et al.		
	CD	5	3	4	8	0	0	2	09/94	Caro		

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												YES	
													NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CE	Arnold, Mark A., et al., "Determination of Physiological Levels of Glucose in an Aqueous Matrix with Digitally Filtered Fourier Transform Near-Infrared Spectra", Analytical Chemistry, vol. 62, No. 14, pp. 1457-1464 (Jul. 15, 1990).
CF	Zee, Van Der P., et al. "Simulation of the Point Spread Function for Light in Tissue by a Monte Carlo Method," Department of Medical Physics and Bioengineering, University College Hospital, Shropshire House, Capper Street, London Wc1E 6JA, U.K., pp. 179-191.
CG	Takada, M., et al. "Non-Invasive Near-Infrared Measurements of Human Arm Tissue In Vivo," R&D Engineering-Spectrophotometric Instrument, Analytical Instrument Division, Shimadzu Corporation, Nakagyo-ku, Kyoto 604, and *Biophysics Division, Research Institute of Applied Electricity, Hokkaido University, Sapporo 060, Japan., pp. 301-304.
CH	Heise, H.M., et al. "Noninvasive Blood Glucose Sensors Based on Near-Infrared Spectroscopy", Artif Organs, vol. 18, No. 6, pp. 439-447 (Nov. 6, 1994).

EXAMINER	DATE CONSIDERED
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	CI	5	3	4	8	0	0	3	09/94	Caro				
	CJ	5	3	4	9	1	8	8	09/94	Maggard				
	CK	5	3	4	9	1	8	9	09/94	Maggard				
	CL	5	3	6	0	9	7	2	11/94	DiFoggio, et al.				
	CM	5	3	6	1	7	5	8	11/94	Hall, et al.				
	CN	5	3	6	2	3	0	7	11/94	Guy, et al.				
	CO	5	3	7	0	1	1	4	12/94	Wong, et al.				
	CP	5	3	7	9	2	3	8	01/95	Stark				
	CQ	5	3	7	9	7	6	4	01/95	Barnes, et al.				
	CR	5	3	8	3	4	5	2	01/95	Buchert				
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												YES	NO	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	CS	Glaister, D.H., "Current and Emerging Technology in G-Loc Detection: Noninvasive Monitoring of Cerebral Microcirculation Using Near Infrared", Aviation, Space, and Environmental Medicine, pp. 23-28 (Jan. 1988).												
	CT	Burfeindt, J., et al., "Angewandte optische Untersuchungen im nahen Infrarot-und Rotbereich an Humanvollblut; Anwendungsbeispiele", Biomedizinische Technik Band 30, Heft 1-2/1985, pp. 18-23.												
	CU	Muller, U.A., et al., "Non-invasive Blood Glucose Monitoring by Means of Near Infrared Spectroscopy: Methods for Improving the Reliability of the Calibration Models," The International Journal of Artificial Organs, vol. 20, pp. 285-290 (Nov. 5, 1997).												
	CV	Arnold, Mark A., "Non-invasive Glucose Monitoring", Current Opinion in Biotechnology, 1996, 7:46-49.												
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	CW	5	4	3	3	1	9	7	07/95	Stark				
	CX	5	4	3	5	3	0	9	07/95	Thomas, et al.				
	CY	5	4	4	6	6	8	1	08/95	Gelher, et al.				
	CZ	5	4	5	6	2	5	2	10/95	Vari, et al.				
	DA	5	4	5	9	3	1	7	10/95	Small, et al.				
	DB	5	4	5	9	6	7	7	10/95	Kowalski, et al.				
	DC	5	4	8	1	4	7	6	01/96	Windig				
	DD	5	4	9	8	8	7	5	03/96	Obremski, et al.				
	DE	5	5	1	2	7	5	1	04/96	Murray, Jr., et al.				
	DF	5	5	1	5	8	4	7	05/96	Braig, et al.				
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
												YES	NO	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	DG	Eggert, Hans R., et al., "Optical Properties of Human Brain Tissue, Meninges, and Brain Tumors in the Spectral Range of 200 to 900 nm", Neurosurgery, vol. 21, No. 4, pp. 459-464 (1987).												
	DH	Giannini, Ivo, et al., "Rat Brain Monitoring by Near-Infrared Spectroscopy; An Assessment of Possible Clinical Significance" Physiol. Chem. Phys., 14, pp. 295-305 (1982).												
	DI	Israel, Richard G., et al., "Validity of a Near-Infrared Spectrophotometry Device for Estimating Human Body Composition", Research Quarterly for Exercise and Sport, vol. 60, No. 4, pp. 379-383 (1989).												
	DJ	Blazek, V., "Verhalten der menschlichen Haut gegenüber elektromagnetischer Strahlung im Sichtbaren Und Nahen IR-Bereich", Z. Rechtsmedizin 77, 91-103 (1976).												
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	DK	5	5	5	1	4	2	2	09/96	Simonsen, et al.			
	DL	5	5	6	8	4	0	0	10/96	Stark, et al.			
	DM	5	5	7	6	5	4	4	11/96	Rosenthal			
	DN	5	5	8	2	1	6	8	12/96	Samuels, et al.			
	DO	5	6	0	2	7	5	5	02/97	Ashe, et al.			
	DP	5	6	0	6	1	6	4	02/97	Price, et al.			
	DQ	5	6	1	0	8	3	6	03/97	Aismeyer, et al.			
	DR	5	6	1	5	6	7	2	04/97	Braig, et al.			
	DS	5	6	3	8	8	1	6	06/97	Kiani-Azarbajany, et al.			
	DT	5	6	4	1	9	6	2	06/97	Perry, et al.			
	DU	5	6	5	5	5	3	0	08/97	Messerschmidt			
	DV	5	6	5	7	7	5	4	08/97	Rosenewaig			
	DW	5	6	6	6	9	5	6	09/97	Buchert			
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											YES	NO	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)													
	DX	Van Toorenbergen, A.W., et al., "Measurement of Total Serum Protein by Near-Infrared Reflectance Spectroscopy," J. Clin. Chem. Clin. Biochem., vol. 26, No. 4, pp. 209-211(1988).											
	DY	Ciurczak, E.W., et al., "Chapter II.B.2 Identification of Actives in Multicomponent Pharmaceutical Dosage Forms Using Near-Infrared Reflectance Analysis," Molecular Spectroscopy Workbench, pp. 89-109, John Wiley & Sons, Inc. (1998).											
	DZ	Ciurczak, E.W., et al., Chapter II.B.8 Analysis of Solid and Liquid Dosage Forms Using Near-Infrared Reflectance Spectroscopy Molecular Spectroscopy Workbench, pp. 143-149, John Wiley & Sons, Inc. (1998).											
	EA	Ciurczak, E.W. et al., "Chapter II.C.1 Chemometrics: A Powerful Toolbox For UV/VIS Spectroscopy," Molecular Spectroscopy Workbench, pp. 165-172, John Wiley & Sons, Inc. (1998).											
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	EB	5	6	6	8	3	7	3	09/97	Robbat, et al.				
	EC	5	6	6	8	3	7	4	09/97	DiFoggio, et al.				
	ED	5	6	7	2	8	7	5	09/97	Block, et al.				
	EE	5	6	7	6	1	4	3	10/97	Simonsen, et al.				
	EF	5	6	8	0	3	2	0	10/97	Helmer, et al.				
	EG	5	6	8	0	3	2	1	10/97	Helmer, et al.				
	EH	5	6	9	2	5	0	4	12/97	Essenpreis, et al.				
	EI	5	7	0	6	2	0	8	01/98	Osten, et al.				
	EJ	5	7	1	0	6	3	0	01/98	Essenpreis, et al.				
	EK	5	7	1	2	4	8	1	01/98	Welch, et al.				
	EL	5	7	1	2	7	9	7	01/98	Descales, et al.				
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
												YES	NO	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	EM	Courczak, E.W., et al., "Chapter III.1 Purgamenta Unuit, Purgamenta Exiunt;" Molecular Spectroscopy Workbench, pp. 315-317, John Wiley & Sons, Inc. (1998).												
	EN	Burns, D.A., et al., "Chapter 4 Commerical NIR Instrumentation," Handbook of Near-Infrared Analysis, pp. 37-51, Mrael Dekker, Inc. (1992).												
	EO	Burns, D.A., et al., "Chapter 5 Process Analysis," Handbook of Near-Infrared Analysis, pp. 53-105, Mrael Deffer, Inc. (1992).												
	EP	Burns, D.A., et al., "Chapter 6 Data Analysis: Multilinear Regression and Principal Component Analysis," Handbook of Near-Infrared Analysis, pp. 107-158, Mrael Dekker, Inc. (1992).												
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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)									APPLICANT(S): Emil CIURCZAK, et al.					
									FILING DATE: September 8, 2003		GROUP: 3736			
U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
EQ		5	7	3	0	7	1	4	03/98	Guy, et al.				
ER		5	7	4	0	0	7	3	04/98	Bages, et al.				
ES		5	7	4	3	2	6	2	04/98	Lepper, Jr., et al.				
ET		5	7	4	7	8	0	6	05/98	Khalil, et al.				
EU		5	7	5	0	9	9	4	05/98	Schlager				
EV		5	7	5	2	5	1	2	05/98	Gozani				
EW		5	7	7	1	8	9	1	06/98	Gozani				
EX		5	7	8	2	7	5	5	07/98	Chance, et al.				
EY		5	7	8	8	6	3	2	08/98	Pezzaniti, et al.				
EZ		5	7	9	8	5	2	6	08/98	Shenk, et al.				
FA		5	8	2	2	2	1	9	10/98	Chen, et al.				
FOREIGN PATENT DOCUMENTS														
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	FB	Burns, D.A., et al., "Chapter 7 Data Analysis: Calibration of NIR Instruments by PLS Regression," handbook of Near-Infrared Analysis, pp. 159-180, Mrael Dekker, Inc. (1992).												
	FC	Burns, D.A., et al., "Chapter 10 NIR Spectroscopy Calibration Basics," Handbook of Near-Infrared Analysis, pp. 247-280, Mrael Dekker, Inc. (1992).												
	FD	Burns, D.A., et al., "Chapter 13 Qualitative Discriminant Analysis," Handbook of Near-Infrared Analysis, pp. 329-363, Mrael Dekker, Inc. (1992).												
	FE	Burns, D.A., et al., "Chapter 20 NIR Analysis of Pharmaceuticals," Handbook of Near-Infrared Analysis, pp. 549-563, Mrael Dekker, Inc. (1992).												
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FF		5	8	2	3	9	5	1	10/98	Messerschmidt				
FG		5	8	2	3	9	6	6	10/98	Buchert				
FH		5	8	3	0	1	3	2	11/98	Robinson				
FI		5	8	3	0	1	3	3	11/98	Osten, et al.				
FJ		5	8	4	0	0	2	0	11/98	Heinonen, et al.	600	365		
FK		5	8	4	1	5	2	3	11/98	Degen, et al.				
FL		5	8	5	7	4	6	2	01/99	Thomas, et al.				
FM		5	8	9	0	4	8	9	04/99	Elden				
FN		5	8	9	6	1	9	8	04/99	Chou, et al.				
FO		5	9	0	0	6	3	4	05/99	Soloman				
FP		5	9	1	0	1	0	9	06/99	Peters, et al.				
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	FQ	5	9	3	3	7	9	2	08/99	Andersen, et al.				
	FR	5	9	3	5	0	6	2	08/99	Messerschmidt, et al				
	FS	5	9	4	5	6	7	6	08/99	Khalil, et al.				
	FT	5	9	4	6	1	2	8	08/99	Pack				
	FU	5	9	4	6	6	4	0	08/99	Goodacre, et al.				
	FV	5	9	6	8	7	6	0	10/99	Phillips, et al.				
	FW	5	9	8	5	1	2	0	11/99	Cholli, et al.				
	FX	6	0	0	6	1	1	9	12/99	Soller, et al.				
	FY	6	0	1	2	0	1	9	01/00	Saby				
	FZ	6	0	1	4	5	7	7	01/00	Henning, et al.				
	GA	6	0	2	6	3	1	4	02/00	Amerov, et al.				
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	GB	6	0	4	0	5	7	8	03/00	Malin, et al.				
	GC	6	0	4	9	0	8	2	04/00	Methfessel				
	GD	6	0	6	1	5	8	2	05/00	Small, et al.				
	GE	6	0	6	4	0	6	5	05/00	Block, et al.				
	GF	6	0	6	4	8	9	7	05/00	Lindberg, et al.				
	GG	6	0	6	6	8	4	7	05/00	Rosenthal				
	GH	6	0	6	7	4	6	3	05/00	Jeng, et al.				
	GI	6	0	7	0	1	2	8	05/00	Descales, et al.				
	GJ	6	0	8	7	1	8	2	07/00	Jeng, et al.				
	GK	6	0	8	7	6	6	2	07/00	Wilt, et al.				
	GL	6	0	9	1	8	4	3	07/00	Horesh, et al.				
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GM		6	1	1	0	5	2	2	08/00	Lepper, Jr., et al.				
GN		6	1	1	4	6	9	9	09/00	Barton, et al.				
GO		6	1	1	5	6	7	3	09/00	Malin, et al.				
GP		6	1	2	4	1	3	4	09/00	Stark				
GQ		6	1	3	7	1	0	8	10/00	DeThomas, et al.				
GR		6	1	5	1	5	1	7	11/00	Honigs, et al.				
GS		6	1	5	7	0	4	1	12/00	Thomas, et al.				
GT		6	1	5	9	2	5	5	12/00	Perkins				
GU		6	1	6	1	0	2	8	12/00	Braig, et al.				
GV		6	1	8	1	9	5	7	01/01	Lambert, et al.				
GW		6	2	1	9	5	6	5	04/01	Cupp, et al.				
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	GX	6	2	3	6	0	4	7	05/01					
	GY	6	3	0	9	8	8	4	10/01					
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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	GZ	0	1	6	0	7	6	8	11/85	EP				
	HA	0	2	3	6	0	2	3	09/87	EP				
	HB	0	3	8	2	9	0	8	08/90	EP				
	HC	0	6	8	0	7	2	7	11/95	EP				
	HD	0	4	6	1	2	0	7	02/96	EP				
	HE	0	5	7	7	6	8	4	05/97	EP				
	HF	0	6	3	7	2	1	7	05/98	EP				
	HG	9	5	0	5	5	9	9	02/95	WO				
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												YES	NO
	HH	9	7	0	2	7	8	1	01/97	WO			
	HI	9	7	2	5	9	1	5	07/97	WO			
	HJ	9	7	3	0	6	2	9	08/97	WO			
	HK	9	7	4	3	9	4	7	11/97	WO			
	HL	9	8	3	7	8	0	5	09/98	WO			
	HM	9	8	5	2	4	6	9	11/98	WO			
	HN	9	9	3	9	6	3	1	02/99	WO			
	HO	9	9	2	2	6	3	9	05/99	WO			
	HP	9	9	5	1	1	4	2	10/99	WO			
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